

CAN-2019C

CAN-2019C module follows the CiA-301 version 4.02 and CiA-401 version 2.1. You can access the digital I/O status and set the configuration by using standard CANopen protocol. CAN-2019C has passed the validation of the CiA CANopen Conformance Test tool. Therefore, you can use it with standard CANopen master easily by applying the EDS file. CAN-2019C is a 10-channel universal analog input CANopen slave module. It provides extremely accurate thermocouple measurement and automatically cold-junction compensation for each channel. By owing to the CANopen masters of ICP DAS, you can quickly build a CANopen network to approach your requirement.

Features

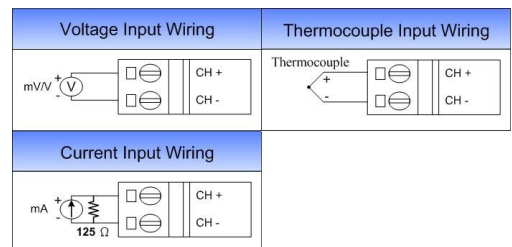
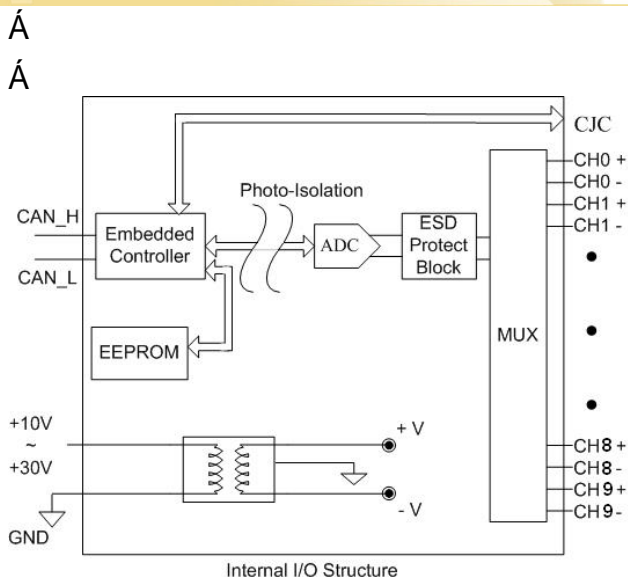
- Á NMT Slave
- Á Provide Pair-Connect function
- Á Provide default EDS file
- Á ESD Protection 4KV Contact for each channel
- Á Support Power supply 10 ~30 V_{DC}
- Á Support CiA-301 v4.02, CiA-401 v2.1
- Á Support PDO Mapping

Pin Assignment

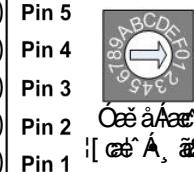
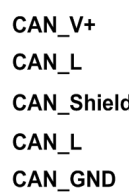
| Pin Assignment Name | Terminal No. | Pin Assignment Name |
|---------------------|--------------|---------------------|
| +5V | 01 | 14 DGND |
| CJC | 02 | 15 CH0+ |
| CH0- | 03 | 16 CH1+ |
| CH1- | 04 | 17 CH2+ |
| CH2- | 05 | 18 CH3+ |
| CH3- | 06 | 19 CH4+ |
| CH4- | 07 | 20 CH5+ |
| CH5- | 08 | 21 CH6+ |
| CH6- | 09 | 22 CH7+ |
| CH7- | 10 | 23 CH8+ |
| CH8- | 11 | 24 CH9+ |
| CH9- | 12 | 25 AGND |
| AGND | 13 | |

Shield F.G. Á

Internal I/O Structure



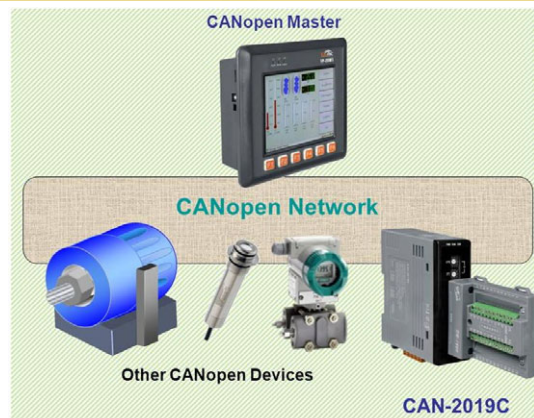
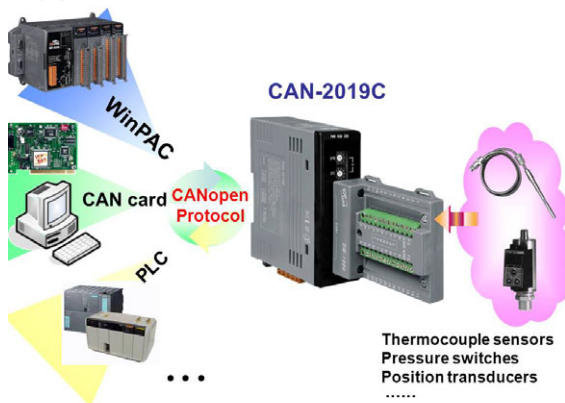
Switch Value



| Switch Value | Baud Rate |
|--------------|-----------|
| 0 | 10 kbps |
| 1 | 20 kbps |
| 2 | 50 kbps |
| 3 | 125 kbps |
| 4 | 250 kbps |
| 5 | 500 kbps |
| 6 | 800 kbps |
| 7 | 1000 kbps |

| CAN Interface | |
|----------------------|---|
| Connector | 5-pin screwed terminal block (CAN_GND, CAN_L, CAN_SHLD, CAN_H, CAN_V+) |
| Baud Rate (bps) | 10 k, 20 k, 50 k, 125 k, 250 k, 500 k, 800 k, 1M |
| Terminator Resistor | Switch for 120 Ω terminator resistor |
| Node ID | 1~99 selected by rotary switch |
| Protocol | CANopen CiA-301 ver4.02, CiA-401 ver2.1 |
| No. of PDOs | 10 Rx, 10Tx (Support Dynamic PDO) |
| PDO Mode | Event Triggered, Remotely requested, Cyclic and acyclic SYNC |
| Error Control | Node Guarding protocol and Heartbeat Producer protocol |
| Emergency Message | Yes |
| Analog Input | |
| Channels | 10 Differential |
| Input Type | +/-15mV, +/-50mV, +/-100mV, +/-500mV, +/-1V, +/-2.5V -20mA ~ +20mA(Requires Optional External 125Ω Resistor) Thermocouple (J, K, T, E, R, S, B, N, C) |
| Resolution | 16-bit |
| Accuracy | +/-0.1% FSR |
| ESD protection | 4kV contact for each channel |
| LED | |
| Round LED | PWR LED, RUN LED, ERR LED |
| Power | |
| Input range | Unregulated +10 ~ +30 V _{DC} |
| Power Consumption | 1.5 W |
| Mechanism | |
| Installation | DIN-Rail |
| Dimensions | 33 mm x 99 mm x 78 mm (W x L x H) |
| Environment | |
| Operating Temp. | -25 ~ 75 °C |
| Storage Temp. | -30 ~ 80 °C |
| Humidity | 10 ~ 90% RH, non-condensing |

Application



Ordering Information

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|--------------------|--|
| CAN-2019C/S | CANopen Slave module of 10- channel universal analog input include CAN-2019C module and a DB-1820 daughter board Art. No. 143920 |
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